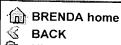
WEST Search History

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DATE: Sunday, January 25, 2004

Hide?	Set Nam	<u>e Query</u>	Hit Count
	DB=US	PT; PLUR=YES; OP=ADJ	
	L13	L12 and (11 or 12 or 13 or 14) not (16 or 17)	12
	L12	15.ti,ab,clm.	172
	L11	L10 same (11 or 12 or 13 or 14)	23
	L10	clostrid\$	4792
	L9	15 same 14	7
	L8	15 same 13	5
	L7	15 same 12	7
	L6	L5 same 11	22
	L5	botulin\$6 or botox	1187
	L4	hypocalcem\$5 or hypercalcem\$5	1660
	L3	hyperthyroid\$5 or hypothyroid\$	1536
	L2	calcitonin	3536
	L1	thyroid or thyroxin	9718

END OF SEARCH HISTORY



🐘 History of your search

BRENDA

The Comprehensive Enzyme Information System Entry of Bontoxilysin (EC-Number 3.4.24.69)



Enzyme Nomenclature

EC number

Recommended Name Systematic Name

Synonyms

CAS Registry Number

Reaction

Reaction Type

Enzyme-Ligand Interactions

Substrate/Product Natural Substrate

Cofactor Metals/lons Inhibitors

Activating Compound

Functional Parameters

KM Value [mM] Ki Value [mM] Turnover Number Specific Activity pH Optimum

pH Range Temperature Optimum

Temperature Range

Organism related Information Source Tissue Localization

Organism

Enzyme Structure

AA Sequence **PDB**

Molecular Weight

Subunits

Posttranslational Modification

Crystallization

Molecular Properties

pH Stability

Temperature Stability

General Stability Organic Solvent Stability

Oxidation Stability Storage Stability Purification

Cloned Engineering Renatured Application

Bibliography/Links/Disease Disease

References Links

Any question? -> Use the BRENDA Discussion groups

PRINT

Mark a special word or phrase in this record:

All organism Clostridium barati Clostridium botulinum Clostridium butyricum Clostridium sp.

Select one or more organism in this record:

Submit

Mark!

EC NUMBER COMMENTARY

3.4.24.69

RECOMMENDED NAME GeneOntology No.

Bontoxilysin

GO:0000000

SYSTEMATIC NAME

No entries in this field

SYNONYMS

BoNT

ORGANISM COMMENTARY LITERATURE

BoNT/B

BoNT/C1

BoNT/D

BoNT/E BoNT/F

BoNT/G

Bontoxilysin C1

Botulinum neurotoxin

More

SwissProt

cf. EC 3.4.24.68

SwissProt

SwissProt

SwissProt

SwissProt

SwissProt

SwissProt

CAS REGISTRY NUMBER COMMENTARY

107231-12-9

REACTION

COMMENTARY

Protein + H2O = hydrolyzed protein

Clostridium botulinum: mechanism <4>; Clostridium botulinum, Clostridium barati, Clostridium butyricum: structure/function relationship

REACTION TYPE

ORGANISM COMMENTARY LITERATURE

hydrolysis of peptide bond

ORGANISM

COMMENTARY

LITERATURE

Clostridium barati

strains 62A (serotype A) or Beluga (serotype E) <10>; type G strain

			•				
SUBSTRATE	PRODUCT	REACTION DIAGRAM		Substrate fr:=reversible ir:=irreversible	LITERATURE/ Substrate	COMMENTARY/ Product	LITERATU Product
				catalytic activity requires reduction of the single interchain disulfide bond of the neurotoxin <4,15>; activating protease activity is localized on light or L-chain of neurotoxin <4>; the clostridial neurotoxins differ from other proteases in the			
More	?		Clostridium botulinum	recognition of the tertiary structure of the target rather than the sequence of the peptide bond to be cleaved <15>; neuroparalytic activity tested by intravenous injection into Balb/c mice <1>; no hydrolysis of short peptides spanning the respective cleavage sites of the target proteins <5,6>; synaptotagmin, synaptophysin <15>	1,4,5,6, 15		-
More	?	<u> </u>	Clostridium barati	no hydrolysis of short peptides spanning the respective cleavage sites of the target proteins <5>	<u>5</u>	-	-
More	?	<u> </u>	Clostridium butyricum	no hydrolysis of short peptides spanning the respective cleavage sites of the target proteins <5>	<u>5</u>	-	-
Viore	?		Clostridium sp.	the botulinum neurotoxins are divided into two groups: the A-E type and the B-D-F- tetanus toxin type <13>; no hydrolysis of short peptides spanning the respective cleavage sites of the target proteins <6>; N- ethylmaleimide sensitive factor (i.e. NSF), alpha/beta-SNAP or gamma-SNAP <13>	<u>6</u> , <u>13</u>	_ -	-
roteins of euroexocytosis pparatus + H2O	?		Clostridium botulinum		2 , <u>3</u> , <u>5</u> , <u>6</u>	-	-
roteins of euroexocytosis pparatus + H2O	?	i i	Clostridium barati	- <u></u>	5	-	-
roteins of euroexocytosis pparatus + H2O	?		Clostridium butyricum	- 5	5		-
roteins of euroexocytosis pparatus + H2O	?	5 1	Clostridium sp.	- €	<u>i</u>	-	-
ecombinant utathione S- ethyltransferase	Hydrolyzed recombinant glutathione S-	(Clostridium	- 1	<u>5</u> 2 fr	proteolytic <u>1</u> agments, MW	5